

CLAIMS :

1. A body scanning equipment including one set of apparatus (1) located to scan a portion of a body (2), said set of apparatus comprising scanning means (4), reflector means (5, 6) associated with said scanning means, said reflector means including first and second reflectors spaced on opposing sides of said scanning means for directing radiant energy to opposing sides of said body, and switchable reflector means (7) for directing radiant energy alternately between said scanning means and said first and second reflectors whereby substantially a 180° scan of said body may be made.

2. An equipment as claimed in claim 1, wherein two sets of apparatus are provided.

3. A body scanning equipment including two sets of apparatus (1) located to scan opposing front and rear portions of a body (2) to be scanned and each set of apparatus comprising scanning means (4; 41), reflector means (5, 6; 51, 61) associated with each scanning means, each said reflector means including first and second reflectors spaced on opposing sides of said scanning means for directing radiant energy to opposing sides of said body, and switchable reflector means (7; 71) for directing radiant energy alternately between said scanning means and said first and second reflectors, whereby a complete 360° scan of said body may be made.

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4. An equipment as claimed in claim 3, wherein scanning means comprises a camera (241) having a viewing axis and an illumination means (242) having an illumination axis which is offset from said camera viewing axis.

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5. An equipment as claimed in claim 3 or 4, wherein two pairs of sets of apparatus are provided, each pair being located in a different elevational position with respect to said body so that each pair is able to scan a whole portion of a body and the elevational location of the pairs being arranged such that a complete body may be scanned.

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6. An equipment as claimed in claims 3, 4 or 5, wherein said first and second reflectors and said switchable reflector means are each formed by a respective mirror.

7. An equipment as claimed in any of claims 3 to 6, wherein said sets of apparatus are mounted in a booth, typically approximately 2 metres square and about 2.4 metres high.

8. An equipment as claimed in any preceding claim, wherein each scanning means provides an output signal to processor means (100) including means (101) for computing surface data from images received from each opposing side of said body, means (102) for producing aligned data from said surface data, means (103) for producing a signal from said aligned data indicative of the surfaces of said body joined together through 360°, and means (104) for

9. An equipment as claimed in claim 8, wherein said means for calculating is connected to a numerically controlled garment cutting machine (111) which may in turn be connected to an automated garment assembly apparatus (112).

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